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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/937,878	10/01/2001	Rainer Wiesmann	P01,0284	9015
29177 75	590 09/30/2004		EXAM	INER
BELL, BOYD	& LLOYD, LLC	PAYNE, DAVID C		
P. O. BOX 1135				
CHICAGO, IL 60690-1135			ART UNIT	PAPER NUMBER
			2633	
			DATE MAILED: 09/30/2004	

Please find below and/or attached an Office communication concerning this application or proceeding.

		Δn_c				
	Application No.	Applicant(s)				
T e	09/937,878	WIESMANN ET AL.				
Office Action Summary	Examiner	Art Unit				
	David C. Payne	2633				
The MAILING DATE of this communication	appears on the cover sheet with	h the correspondence address				
Period for Reply	:DLV IO OET TO EVDIDE « MO	NATIVO EDOM				
A SHORTENED STATUTORY PERIOD FOR RE THE MAILING DATE OF THIS COMMUNICATIO - Extensions of time may be available under the provisions of 37 CFI after SIX (6) MONTHS from the mailing date of this communication - If the period for reply specified above is less than thirty (30) days, a - If NO period for reply is specified above, the maximum statutory pe - Failure to reply within the set or extended period for reply will, by st Any reply received by the Office later than three months after the meanned patent term adjustment. See 37 CFR 1.704(b).	DN. R 1.136(a). In no event, however, may a reply. It reply within the statutory minimum of thirty riod will apply and will expire SIX (6) MONT tatute, cause the application to become ABA	oly be timely filed (30) days will be considered timely. HS from the mailing date of this communication. NDONED (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on 0	<u> 1 October 2001</u> .					
2a) ☐ This action is FINAL . 2b) ☐ ⁻	☐ This action is FINAL. 2b)☑ This action is non-final.					
	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
closed in accordance with the practice und	er Ex parte Quayle, 1935 C.D.	11, 453 O.G. 213.				
Disposition of Claims						
4)⊠ Claim(s) <u>1-27</u> is/are pending in the applicat	tion.					
4a) Of the above claim(s) is/are with	4a) Of the above claim(s) is/are withdrawn from consideration.					
5)⊠ Claim(s) <u>2-5 and 14-27</u> is/are allowed.	☑ Claim(s) <u>2-5 and 14-27</u> is/are allowed.					
6)⊠ Claim(s) <u>1, 6-12 and 13</u> is/are rejected.						
7) Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction ar	nd/or election requirement.					
Application Papers						
9)☐ The specification is objected to by the Exan	niner.					
10)⊠ The drawing(s) filed on <u>01 October 2001</u> is/	0)⊠ The drawing(s) filed on <u>01 October 2001</u> is/are: a)⊠ accepted or b)⊡ objected to by the Examiner.					
	Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).					
Replacement drawing sheet(s) including the cor	,	•				
11) The oath or declaration is objected to by the	e Examiner. Note the attached	Office Action or form PTO-152.				
Priority under 35 U.S.C. § 119						
 12) Acknowledgment is made of a claim for fore a) All b) Some * c) None of: 1. Certified copies of the priority document 2. Certified copies of the priority document 	nents have been received.					
3. Copies of the certified copies of the						
application from the International Bu	•	' Yational Stage				
* See the attached detailed Office action for a		eceived.				
•						
Attachment(s)						
1) Notice of References Cited (PTO-892)	4) Interview Su					
 Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449 or PTO/SB Paper No(s)/Mail Date <u>2/19/2002</u>. 		/Mail Date ormal Patent Application (PTO-152) _·				

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DETAILED ACTION

Priority

1. Receipt is acknowledged of papers submitted under 35 U.S.C. 119(a)-(d), which papers have been placed of record in the file.

Claim Rejections - 35 USC § 103

- 2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 3. Claims 1, 6-12 and 13 are rejected under 35 U.S.C. 103(a) as being unpatentable over Fisher et al. US 5,528,596 (Fisher).

Regarding claims 1, 12 and 13 Fisher disclosed

A method of measuring a distribution function for determining a signal quality in optical transmission systems, comprising the steps of: sampling an optical binary signal in a working channel with a first threshold value (e.g., col./line: 6/10-15), producing first sampling values (); additionally sampling said optical binary signal in a measuring channel with a second threshold value during a plurality of measuring intervals (e.g., col./line: 5/50-65) in which in each case said second threshold value is varied (e.g., col./line: 6/10-15), producing second sampling values (Figure 8B); comparing respective said first sampling values with said second sampling values (Figure 8B), producing comparison values; integrating or summating

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(e.g., col./line: 6/45-50) said comparison values to produce, for each measuring interval, a summated comparison value; distribution function of said comparison values as a function of determining a distribution said second variable threshold value after an adequate number of said measuring intervals (e.g., col./line: 5/50-65); and said signal quality or optimizing said optical transmission system improving to utilizing said distribution function (Figure 8,). Fisher does not disclose storing said summated comparison values.

It would have been obvious to an artisan of ordinary skill in the art at the time of invention to store comparison values for the purpose of performing calculations as this is a well-known basic function in algorithmic processors.

Regarding claim 6, Fisher disclosed

wherein measuring intervals of different lengths are used. (e.g., col./line: 5/50-65).

Regarding claim 7, Fisher disclosed

wherein said sampling is synchronous (linearly increasing, col./line: 6/45-50).

Regarding claim 8, Fisher disclosed wherein said sampling takes place in parallel in a plurality of measuring channels with different threshold values. (e.g., col./line: 6/49-65).

Regarding claim 9, Fisher disclosed wherein said sampling takes place in parallel in a plurality of measuring channels with different threshold values during only one measuring interval. (e.g., col./line: 6/49-65).

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Regarding claim 10, Fisher disclosed comprising the step of changing a sampling instant in

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the measuring channel after each measuring interval. (e.g., col./line: 5/50-65).

Regarding claim 11,

Fisher does not disclose an at least approximately optimum value for dispersion

compensation. It would have been obvious to an artisan of ordinary skill in the art at the time

of invention to choose an optimum value to minimize noise disturbance. Where the general

conditions of a claim are disclose in the prior art, it is not inventive to discover the optimum

or workable ranges by routine experimentation.

Allowable Subject Matter

4. Claims 2-5 and 14-27 are allowed.

Conclusion

5. The prior art made of record and not relied upon is considered pertinent to applicant's

disclosure. Takara et al. US 6,396,601 B1 disclose a signal quality monitoring system

relevant to applicant's invention.

6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to David C. Payne whose telephone number is (571) 272-3024. The examiner can normally be reached on M-F, 7a-4p.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jason Chan can be reached on (571) 272-3022. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Dcp

Patent Examiner

AU 2633